

Zoological Record

Vol. 90. Sect. 8, 1953

# BRYOZOA (POLYZOA)

COMPILED BY

ANNA B. HASTINGS, M.A., Ph.D.

LONDON

PUBLISHED BY

THE ZOOLOGICAL SOCIETY OF LONDON

---

PRICE TWO SHILLINGS

JULY, 1955

# SEPARATE SECTIONS OF THE ZOOLOGICAL RECORD

---

In addition to the complete bound volume, the separate Sections may be obtained singly, bound in printed paper covers.

The following are the Sections and their prices, viz. :—

					<i>s.</i>	<i>d.</i>
1.	Comprehensive Zoology	...	...	...	2	6
2.	Protozoa	...	...	...	7	6
3.	Porifera	...	...	...	2	0
4.	Coelenterata	...	...	...	4	0
5.	Echinoderma	...	...	...	2	6
6.	Vermes	...	...	...	10	0
7.	Brachiopoda	...	...	...	3	0
8.	Bryozoa	...	...	...	2	0
9.	Mollusca	...	...	...	10	0
10.	Crustacea	...	...	...	5	0
11.	Trilobita	...	...	...	3	0
12.	Arachnida	...	...	...	7	6
*13.	Insecta	...	...	...	30	0
14.	Protochordata	...	...	...	2	0
15.	Pisces	...	...	...	7	0
16A.	Amphibia	...	...	...	3	6
16B.	Reptilia	...	...	...	4	0
17.	Aves...	...	...	...	7	6
18.	Mammalia	...	...	...	7	6
19.	List of New Genera and Subgenera	...	...	...	3	0

\* Obtainable only from the Commonwealth Institute of Entomology, 56, Queen's Gate, London, S.W.7.

# 8. BRYOZOA (POLYZOA)

ARRANGED BY

ANNA B. HASTINGS, M.A., Ph.D.

## CONTENTS

	PAGE
I. TITLES	1
II. SUBJECT INDEX	4
III. SYSTEMATIC INDEX	5

### I. TITLES

1.—Allen, F. E. Distribution of marine invertebrates by ships. Aust. J. mar. & freshw. Res. **4** 2 1953 : 307–316.

Amar, R., see Pérès, J. M.

2.—Balavoine, P. Bryozoaires récoltés en septembre 1952 dans la région de Dinard. Bull. Lab. Dinard fasc. 38 1953 : 16–19.

3.—Balavoine, P. Sur la présence du genre *Trochiliopora* dans le Sénonien du Bassin de Paris et description de *Trochiliopora caffini* nov. sp. Bull. Soc. géol. Fr. **6** 3 1953 : 579–581 1 pl. 1 text-fig.

Balavoine, P. see Silén, L.

Bassindale, R. see Lilly, S. J.

4.—Bassler, R. S. Bryozoa in R. C. Moore, Treatise on Invertebrate Paleontology, Part G, 1953 : G1–G253 175 text-figs.

5.—Bobin, G. and Prenant, M. Sur les Loxosomes du *Phascolion strombi* (Montagu) et sur la spécificité de l'inquilinisme des Loxosomes. Arch. Zool. exp. gén. Paris **90** 1953 Notes et Rev. 1 : 18–41 7 text-figs.

6.—Bobin, G. and Prenant, M. Les populations de Loxosomes du *Phascolion strombi* (Montagu). Arch. Zool. exp. gén. Paris **90** 1953 Notes et Rev. 3 : 93–104 3 text-figs.

7.—Bobin, G. and Prenant, M. Deux Loxosomes nouveaux de Roscoff. Arch. Zool. exp. gén. Paris **91** 1953 Notes et Rev. 1 : 25–35.

8.—Bobin, G. and Prenant, M. Sur trois Loxosomes Méditerranéens. Bull. Inst. Océanog. Monaco No. 1030 1953 : 1–9 3 text-figs.

9.—Bobin, G. and Prenant, M. La classification des Loxosomes selon Mortensen et le *Loxosoma singulare* de Keferstein et Claparède. Bull. Soc. zool. Fr. **78** 1 1953 : 84–96 5 text-figs.

- 10.—**Bobin, G. and Prenant, M.** Sur les populations de Loxosomes des Aphrodites et Hermiones. Bull. Soc. zool. Fr. **78** 2-3 1953 : 122-132 4 text-figs.
- 11.—**Bobin, G. and Prenant, M.** Sur deux *Loxocalyx* des côtes françaises. Bull. Soc. zool. France **78** 5-6 1953 : 381-387 1 text-fig.
- 12.—**Brien, P.** La pérennité somatique. Biol. Res. **28** 3 1953 : 308-349 21 figs.
- Buinitski, V. Kh.** see Kluge, H.
- 13.—**Dakin, W. J. and others.** Australian seashores. A guide for the beach-lover, the naturalist, the shore fisherman, and the student, London (Angus & Robertson), 1953 : i-xii, 1-372, frontis. col., 99 pls.
- 14.—**Dale, N. C.** Geology and mineral resources of the Oriskany Quadrangle (Rome Quadrangle). Bull. N.Y. St. Mus. No. 345 1953 : 1-197 38 figs. map.
- 15.—**Davis, G. H., III.** The contact between the Manlius limestone and the Coeymans limestone in Upper New York State. Circ. N.Y. St. Mus. No. 35 1953 : 1-31.
- 16.—**Devèze, L.** Note préliminaire sur la présence de Bactéries attaquant la gélose chez les larves cyphonautes d'*Electra pilosa*. Rec. Trav. Stat. mar. Endoume Fasc. 8 1953 : 43-47.
- 17.—**Devèze, L.** Contribution à l'étude de la nutrition des stades larvaires planctonique. I. Mise en évidence de l'utilisation possible du contenu bactérien des eaux par les larves cyphonautes d'*Electra pilosa* Linné. Rec. Trav. Stat. mar. Endoume Fasc. 8 1953 : 49-54.
- Duncan, H.** see Easton, W. H.
- 18.—**Easton, W. H. and Duncan, H.** *Archimedes* and its genotype. J. Paleont. **27** 5 1953 : 737-741.
- Ebling, F. J.** see Lilly, S. J.
- 19.—No Record.
- 20.—**Gautier, Y.** Contribution à l'étude des Bryozoaires de Corse. Rec. Trav. Stat. Mar. Endoume, Fasc. 9 1953 : 39-66 9 text-figs. [see also Pérès & others, 43].
- 21.—**Gautier, Y. and Picard, J.** Note sur trois prétendus hydroides. Rec. Trav. Stat. mar. Endoume Fasc. 4 1952 : 57-58.
- Graves, R. W.** see Plumley, W. J.
- 22.—**Holtedahl, O.** Norges Geologi. Norg. geol. Unders. **164** 1 1953 : 178-232 text-figs. 81.
- 23.—**Humphries, C. F.** A species of Polyzoa, *Caberea boryi* Audouin, new to Ireland. Irish. Nat. Jour. **11** 3 1953 : 80.
- Kałkowski, W.** see Wojtusiak, R. J.
- 24.—**Kato, K.** On a Luminous Bryozoan *Acanthodesia serrata*. Zool. Mag., Tokyo **59** 1950 : 9-10 2 figs.
- 25.—**Kay, M.** Geology of the Utica Quadrangle, New York. Bull. N.Y. St. Mus. No. 347 1953 : 1-126 66 figs.
- Kitching, J. A.** see Lilly, S. J.
- 25B.—**Kluge, H.** Kamptozoa from the Arctic Ocean. Exp. Drifting Ice Central Arctic Ocean 1937-40, ed. V. Kh. Buinitski **3** 1946 : 149-157 [Not seen. English summary].
- Kornas, J.** see Wojtusiak, R. J.
- 26.—**Kräusel, W.** *Cyclopelta winteri* (Bryozoa) aus dem Mittel-Devon. der Eifel. Senckenbergiana. **34** 1-3 1953 : 43-52 3 pls. 2 text-figs.
- 27.—**Lanterno, E.** Étude géologique des environs de Champéry, Val d'Illeiez, Valais, Suisse. Arch. Sci., Genève **6** 6 1953 : 295-373 4 pls. 4 figs.
- 28.—**Lewis, J. R.** The ecology of rocky shores around Anglesey. Proc. zool. Soc. Lond. **123** 3 1953 : 481-549 4 pls. 15 text-figs.
- 29.—**Lilly, S. J., Sloane, J. F., Bassindale, R., Ebling, F. J. and Kitching, J. A.** The ecology of the Lough Ine Rapids with special reference to water currents. IV. The sedentary fauna of sublittoral boulders. J. Anim. Ecol. **22** 1 1953 : 87-122 25 figs. 3 tables.
- 30.—**Lutaud, G.** Premiers stades de la croissance zoariale chez le Bryozoaire Chéilostome *Scrupocellaria reptans* Thompson. Arch. Zool. exp. gén. Paris **90** Notes & Rev. 1 1953 : 42-58 5 text-figs.



**31.—Lutaud, G.** Progression de la calcification au cours de la métamorphose de la larve chez *Escharoides coccinea* Abildgaard, Bryozoaire chilostome. Arch. Zool. exp. gén. Paris **91** Notes et Rev. 1 1953 : 36–50 5 text-figs.

**32.—Marcus, E.** Notas sobre Briozoos marinhos brasileiros. Arg. Mus. Nac. **42** 1953 : 273–342 8 pls. [English summary].

**33.—Marcus, E. du B.-R.** Bryozoa from Lake Titicaca. Bol. Fac. Ciê. Letr. Univ. São Paulo, Zool. no. 18 1953 : 149–163 3 pls.

**34.—Mawatari, S.** On *Electra angulata* Levisen. One of the Fouling Bryozoans in Japan. Misc. Rep. Res. Inst. Nat. Resources no. 32 1953 : 5–10 1 pl. 5 text-figs.

**35.—Mawatari, S.** Studies on Japanese Ctenostomatous Bryozoa, I. On some species of Carnosa. Publ. Seto Mar. Lab. **3** 2 1953 : 213–220 3 pls. 3 text-figs.

**Medwecka-Kornaś, A.** see Wojtusiak, R. J.

**Moore, R. C.** see Bassler, R. S.

**36.—Murdoch, J.** Marine Invertebrates. (Exclusive of Mollusks), in Rep. Internat. Polar Exped. to Point Barrow, Alaska. Washington, 1885 : 136–176 2 pls. [Polyzoa : 167–168].

**37.—Newell, N. D.** Periodicity in invertebrate evolution. J. Paleont. **26** 3 1952 : 371–385 figs. 1–10.

**38.—Okada, Y.** Ill. Encycl. Faun. Jap., Rev. Edit. 1947. [Not seen].

**39.—Osburn, R. C.** Cyclostomata, Entoprocta and Addenda, in Bryozoa of the Pacific Coast of America, part 3. Allan Hancock Pacif. Exped. **14** 3 1953 : 613–725, 759–811, 820–841 14 pls.

**40.—Osburn, R. C. and Soule, J. D.** Ctenostomata, in Bryozoa of the Pacific Coast of America, part 3. Allan Hancock Pacif. Exped. **14** 3 1953 : 726–758, 812–819.

**41.—Paproth, E.** Eine Kohlenkalkfauna aus dem Kulmkonglomerat von Frankenberg an der Eder. Paläont. Z. **27** 3–4 1953 : 169–207 pls. 11–12 text-figs. 1–2.

**42.—Pennak, R. W.** Freshwater invertebrates of the United States. New York (Ronald Press Co.) 1953 : i–x, 1–769 470 figs.

**43.—Pérès, J. M., Amar, R. and Picard, J.** Compte rendu préliminaire d'un voyage zoologique sur les côtes de Corse. Bull. Inst. Océanogr. Monaco no. 1007 1952 : 1–22 1 text-fig.

**Picard, J.** see Gautier, Y.

**Picard, J.** see Pérès, J. M.

**44.—Plumley, W. J. and Greaves, R. W.** Virgilian Reefs of the Sacramento Mountains, New Mexico. J. Geol. Chicago **61** 1 1953 : 1–16 4 pls. 5 figs.

**Prenant, M.** see Bobin, G.

**45.—Rawson, D. S.** The bottom fauna of Great Slave Lake. J. Fish. Res. Bd. Can. **10** 1953 : 486–520 11 figs.

**46.—Razet, P.** Notes de faunistique armoricaine (2e note). Bull. Soc. Sci. Bretagne **26** 1–4 1953 : 33–41 3 figs.

**47.—Shaw, A. B.** Paleontology of northwestern Vermont III. Miscellaneous Cambrian fossils. J. Paleont. **27** 1 1953 : 137–146 pl. 18 text-fig. 2.

**48.—Shikama, T.** A handbook of illustrated fossils from Japanese and their adjacent Territories : 220–221 pl. 50 text-fig. 24, Kyôto, 1952.

**49.—Shrock, R. R. and Twenhofel, W. H.** Principles of Invertebrate Paleontology 2nd ed. 1953 : 195–254 text-figs. (7) 1–45.

**50.—Silén, L.** [attributed in error to P. Balavoine, teste P. Balavoine and L. Silén]. Folke Borg (1892–1950). Notice biographique et bibliographique. Ann. Centr. d'Études. Document. Paléont. Paris **1** 1953 : 3–6.

**51.—Sinclair, G. W.** Middle ordovician beds in the Saguenay Valley, Quebec. Amer. J. Sci. **251** 12 1953 : 841–854 2 figs.

**Sloane, J. S.** see Lilly, S. J.

**52.—Soule, J. D.** Post-larval zoarial development in Carnosa (Bryozoa Ctenostomata). Bull. S. Calif. Acad. Sci. **52** 3 1953 : 88–92 2 pls.

**Soule, J. D.** see Osburn, R. C.

Twenhofel, W. H. *see* Shrock, R. R.

53.—Vigeland, I. Litt om bryozoeerne eller mosdyrene. Saertryk av Fauna. Norsk zool. Foren. Tidsskr. no. 2 1953 : 76–87 6 text-figs.

54.—Vigneaux, M. Sur *Lunulites conica* DeFrance, 1833 ; *Trochopora conica* d'Orbigny, 1850 et *Lunulites conica* Busk, 1859. P.V. Soc. Sci. phys. nat. Bordeaux 1946-48 [1952] : 55–57 4 figs.

55.—Vigneaux, M. Sur la présence dans le Lutetien de la Chalosse du genre *Batopora* Reuss, 1847. P.V. Soc. Sci. phys. nat. Bordeaux 1946-48 [1952] : 58–59.

56.—Vinogradov, A. P. The Elementary Chemical Composition of Marine Organisms. Mem. Sears Fdn. Mar. Res. 2 1953 : 220–224.

57.—Voigt, E. Revision von : H. Hamm "Die Bryozoen des Mastrichter Obersenon" (1881). Mitt. geol. (St.) Inst. Hamb. 22 1953 : 32–75 pls. 1–14 1 text-fig.

58.—Vyalov, O. S. Permian Sea in Dzhungaria. C.R. Acad. Sci. U.R.S.S. N.S. 85 2 1952 : 401–404. [In Russian].

59.—Wetzel, W. Organische Inhaltskörper danzeitlicher Bryozoen-skelette. Schr. naturw. Ver. Schl.-Holst. 25 1951 : 34–37 7 figs.

60.—Wetzel, W. Nachtrag zu meinem Artikel "Organische Inhaltskörper danzeitlicher Bryozoen" in Bd. 25 der Zeitschrift (1951). Schr. naturw. Ver. Schl.-Holst. 26 2 1953 : 175.

61.—Wojtusiak, R. J., Kalkowski, W., Medwecka-Kornaś, A., and Kornas, J. Investigations of the bottom fauna and flora in the Gulf of Gdańsk made by using a diving helmet. Part V. Bull. int. Acad. Cracovie 1951BII 4–6 1952 : 117–143 15 figs.

## II.—SUBJECT INDEX

### GENERAL

Obituary notice of Folke Borg, SILÉN 50.

Introductory account of Polyzoa, recent and fossil, with references and many figures, SHROCK & TWENHOFEL

49 ; Morphology of the Polyzoa and glossary of terms, BASSLER 4 ; Fresh-water Polyzoa of U.S.A., general account with key and many illustrations, PENNAK 42 ; Stratigraphically arranged list of chief publications, BASSLER 4 ; Popular account of Polyzoa, VIGELAND 53.

H. Hamm (1881) collection in Berlin, revision of genera and species, VOIGT 57.

Techniques for examination of fossil Polyzoa, BASSLER 4.

Periodicity in evolution, graphs comparing rate of evolution (numbers of genera) in Polyzoa and other Invertebrates, NEWELL 37.

Inorganic chemical composition of recent Polyzoa, VINOGRADOV 56.

Organic bodies in fossil Polyzoa, WETZEL 59, 60.

Paired luminous organs of *Acanthodesia serrata*, KATO 24.

Post-larval zoarial development in *Carnosa*, SOULE 57 ; in *Scrupocellaria*, LUTAUD 30 ; Development of calcification in metamorphosis, LUTAUD 31 ; Somatic perennity, growth-budding and dissemination-budding, dedifferentiation and redifferentiation of somatic cells, BRIEN 12.

Bacteria attacking *Cyphomantes* larvae, DEVÈZE 16 ; as food of *Cyphomantes* larvae, DEVÈZE 17.

Inquilinism of *Laxosoma*, BOBIN & PRENANT 5, 6, 8, 9, 10.

Polyzoa as fouling organisms, MAWATARI 34 ; Transport by ships, ALLEN 1.

Ecology of rocky shores, LEWIS 28 ; of Polyzoa on sublittoral boulders in relation to currents, LILLY & others 29.

### DISTRIBUTION

#### (a) RECENT

**Marine.**—Arctic, KLUGE 25B ; Alaska, MURDOCH 36 ; LEWIS 28 ; Ireland, HUMPHRIES 23 ; LILLY & others 29 ; France, BALAVOINE 2 ; BOBIN & PRENANT 5, 6, 7, 9, 10, 11 ; LUTAUD 30, 31 ; Mediterranean, DEVÈZE 16, 17 ; GAUTIER 20 ; GAUTIER & PICARD 21 ; MONACO, BOBIN & PRENANT 1 ; Corsica, PÈRES,

AMAR & PICARD 43; Poland, WOJ-  
TUSIAK & others 61; Pacific Coast,  
U.S.A., OSBURN 39; OSBURN &  
SOULE 40; California, U.S.A., SOULE  
52; Brazil, MARCUS 32; Japan,  
MAWATARI 34, 35; OKADA 38;  
Australia, DAKIN 13.

**Freshwater.**—France, RAZET 46;  
Canada, RAWSON 45; U.S.A., PENNAK  
42; Lake Titicaca, Peru, MARCUS  
33.

(b) FOSSIL

**General.**—Norway, HOLTEDAHN 22;  
Japan and adjacent territories, SHI-  
KAMA 48.

**Pleistocene.**—California, OSBURN  
39.

**Eocene.**—France, VIGNEAUX 55;  
Switzerland, LANTERNO 27.

**Cretaceous.**—France, BALAVOINE  
3; Holland, VOIGT 57; Switzerland,  
LANTERNO 27.

**Permian.**—Russia, VYALOV 58.

**Carboniferous.**—Germany, PAP-  
ROTH 41; New Mexico, PLUMLEY &  
GRAVES 44.

**Devonian.**—Germany, KRÄUSEL 26;  
New York State, U.S.A., DALE 14;  
DAVIS 15.

**Silurian.**—New York State, U.S.A.,  
DALE 14; DAVIS 15.

**Ordovician.**—Canada, SENCLAIR  
51; New York State, U.S.A., DALE  
14; KAY 25.

**Cambrian.**—Vermont, U.S.A.,  
SHAW 47.

### III.—SYSTEMATIC INDEX

Full references are given only in the  
case of new species, the volume number  
being given in "small bold clarendon".  
In other cases the numeral in "large  
bold clarendon" refers to the list of  
titles where the full reference is to be  
found.

#### GENERAL

Definitions all groups from phylum  
to families, genera listed with brief  
indications of some characters and  
many figures, BASSLER 4.

## ECTOPROCTA

### GYMNOLAEMATA

#### CTENOSTOMATA

Ctenostomata discussed, BASSLER 4  
p. G 32.—Defined, OSBURN & SOULE  
40 p. 726.

*Azevillia* defined, *A. setigera*, OSBURN  
& SOULE 40 p. 745.

Alcyonidiidae defined, OSBURN &  
SOULE 40 p. 727.

*Alcyonidium erectum*, p. 214, *saga-  
mianum* sp. n. Recent Japan, p. 215,  
*kurilensis* sp. n. Recent Japan p. 216,  
MAWATARI Publ. Seto Mar. Lab. 3 2  
1953.—*Alcyonidium* defined, key to  
species, *A. polyum*, p. 727, *parasiticum*,  
*mamillatum*, p. 729, *pedunculatum*,  
*disciforme*, p. 730, *enteromorpha*, p. 731,  
OSBURN & SOULE 40.

*Amathia* defined, *A. concolata*, p. 740,  
*vidovici*, *distans*, p. 741, OSBURN &  
SOULE 40.

*Anguilla* defined, *A. palmata*, OS-  
BURN & SOULE 40 p. 738.

*Bowerbankia imbricata*, *gracilis*, p.  
743, *gracilis* var. *aggregata*, p. 744,  
OSBURN & SOULE 40.

*Buskia* defined, p. 746, *B. seriata*  
sp. n. Recent Galapagos Is., *B. nitens*,  
p. 747, Soule in OSBURN & SOULE Rep.  
Hancock Exped. 14 3 1953.

Buskiidae defined, OSBURN & SOULE  
40 p. 746.

*Carnosa* defined, key to families,  
OSBURN & SOULE 40 p. 726.

*Clavopora* described, *C. occidentalis*,  
OSBURN & SOULE 40 p. 735.

Clavoporididae fam. n. for *Clavopora*  
Busk, Soule in OSBURN & SOULE, Rep.  
Hancock Exped. 14 3 1953 p. 735.

*Farrella* defined, *F. elongata*, OSBURN  
& SOULE 40 p. 750.

*Flustrella* see *Flustrellidra*.—*Flustrella*  
*stolonifera*, p. 217, *stolonifera* var.  
*aspinosa* var. n. Recent Japan, p. 219,  
MAWATARI Publ. Seto Mar. Lab. 3 2  
1953.—*Flustrella* defined, *F. orniculata*,  
p. 732, *gigantea*, p. 733, OSBURN &  
SOULE 40.

*Flustrellidra* nom. n. for *Flustrella*  
Gray 1848, preocc. Ehrenberg 1839 and  
d'Orbigny 1852, BASSLER Treatise  
Paleont. G 1953 p. G 33.



Flustrellidridae **nom. n.** for *Flustrellidae* Hincks, BASSLER Treatise Paleont **G** 1953 p. G 33.

†*Heteronema* sp. SHAW **47** p. 144.

*Immergentia* defined, p. 752, *I. californica*, p. 753, OSBURN & SOULE **40**.

Immergentiidae defined, OSBURN & SOULE **40** p. 752.

*Nolella* defined, *N. stipata*, OSBURN & SOULE **40** p. 737.

Paludicellea defined, OSBURN & SOULE **40** p. 736.

*Penetrantia* defined, *P. densa*, p. 753, *concharum*, p. 754, *sileni*, p. 755, OSBURN & SOULE **40**.

Penetrantiidae defined, OSBURN & SOULE **40** p. 753.

*Pherusella* defined, *P. brevituba*, OSBURN & SOULE **40** p. 734.—*P. brevituba*, SOULE **52** p. 88.

Pherusellidae **fam. n.** for *Pherusella* Soule 1951, Soule in OSBURN & SOULE, Rep. Hancock Exped. **14** 3 1953 p. 733.

†Ropalonariidae **emend. pro** Ropalonariidae, BASSLER, Treatise Paleont, **G** 1953 p. G 35.

Stolonifera defined, OSBURN & SOULE **40** p. 745.

*Terebripora* defined, p. 751, *T. comma*, p. 752, OSBURN & SOULE **40**.

Terebriporidae defined, OSBURN & SOULE **40** p. 751.

*Terebriporina* **div. n.** for Terebriporidae, Immergentiidae, Penetrantiidae, Soule in OSBURN & SOULE, Rep. Hancock Exped. **14** 3 1953 p. 751.

*Triticella* defined, *T. pedicellata*, p. 748, *elongata*, p. 749, *tegeticula* O'Donoghue synonym of *Farrella elongata*, p. 750, OSBURN & SOULE **40**.

*Valkeria* see *Walkeria*.—*Valkeria* defined, *V. tuberosa*, OSBURN & SOULE **40** p. 745.

*Vesicularia* defined, *V. fasciculata* **sp. n.** Recent Alaska, Soule in OSBURN & SOULE, Rep. Hancock Exped. **14** 3 1953 p. 739.

Vesiculariidae defined, OSBURN & SOULE **40** p. 739.

Vesicularina defined, OSBURN & SOULE **40** p. 739.

*Victorella pavida*, MARCUS **32** pp. 312, 316.

*Walkeria* **emend. pro.** *Valkeria*, BASSLER, Treatise Paleont, **G** 1953 p. G 35.

Walkeriidae **emend. pro.** Valkeriidae, BASSLER, Treatise Paleont, **G** 1953 p. G 35.

*Zoobotryon* defined, *Z. verticillatum*, OSBURN & SOULE **40** p. 742.

#### CYCLOSTOMATA

Cyclostomata discussed, BASSLER **4** p. G 37.—Discussed, p. 613, key to divisions, p. 614, glossary of terms, p. 616, OSBURN **39**.

*Acamptostega* Borg = *Tubuliporina* Hagenow, OSBURN **39** p. 614.

†*Actinotaxia* discussed, *A. magna*, VOIGT **57** p. 47.

*Alecto major* Johnston referred to *Proboscina*, p. 621, OSBURN **39**.

†*Apsendesia harmeri* Pergens a synonym of *Carinifer trenkneri* Hamm, VOIGT **57** p. 43.

Articulata discussed, OSBURN **39** p. 674.

Ascosoeciidae = Petaloporidae, VOIGT **57** p. 51.

†*Atagma* discussed, p. 48, *A. macropora*, p. 50, VOIGT **57**.

*Bathysocia* **gen. n.** Tubuliporidae p. 658, genotype *B. bassleri* **sp. n.** Recent Alaska, p. 659, *hastingsae* **sp. n.** for *Tubulipora lobulata* Osburn not Hassall, p. 660, OSBURN, Rep. Hancock Exped. **14** 3 1953.

*Bicrisia edwardsiana*, OSBURN **39** p. 676.

*Bientalophora* discussed, *B. cylindrica* **sp. n.** Recent California, OSBURN, Rep. Hancock Exped., **14** 3 1953 p. 670.

†*Bivestis* Hamm a synonym of *Atagma* Lonsdale, VOIGT **57** p. 48.

*Borgiola* discussed, p. 696, *B. rugosa*, p. 697, *pustulosa* **sp. n.** Recent Alaska, p. 698, OSBURN, Rep. Hancock Exped. **14** 3 1953.

*Calyptrastega* Borg = *Rectangulata* Waters, OSBURN **39** p. 615.



†*Camerapora* discussed, p. 66, *C. semipatina*, *mamillata* = *C. semipatina* pars, p. 67, VOIGT 57.

*Camptostega* Borg = *Articulata* Busk, OSBURN 39 p. 614.

*Cancellata*, OSBURN 39 p. 687.

†*Canuella* Borg a synonym of *Multi-cavea*, VOIGT 57 p. 53.

†*Carinifer trenkneri*, VOIGT 57 p. 43.

†*Ceidmonea* redefined, p. 68, *C. procera*, *macgillivrayi* = *procera*, p. 69, VOIGT 57.

†*Ceriopora cavernosa* v. Hag. referred to *Lichenopora*, VOIGT 57 p. 44.

*Cerioporina* defined, OSBURN 39 p. 692.

†*Clausacamerapora* a synonym of *Camerapora*, VOIGT 57 p. 66.

†*Conotubigera hennigi* Pergens a synonym of *Patenaria depressa* Hamm, VOIGT 57 p. 41.

*Crisia micra* **sp. n.** Recent Brazil, MARCUS Arq. Mus. Nac. 42 1953 pp. 275, 314.—*Crisia* defined, key to species, p. 678, *C. serrulata* **nom. n.** for *Crisina serrata* Gabb & Horn preocc. = *Crisia pacifica* Robertson, p. 679, *C. occidentalis*, p. 680, *C. operculata*, p. 681, *maxima*, *eburnea*, p. 682, *cribraria*, p. 683, *elongata*, *pugeti*, p. 684, *C. punctata* d'Orb. and *C. californica* d'Orb. unrecognizable, p. 685, OSBURN, Rep. Hancock Exped. 14 3 1953.

*Crisidia cornuta*, OSBURN 39 p. 675.

*Crisiidae* defined, key to genera, OSBURN 39 p. 674.

*Crisulipora* discussed, p. 685, *C. occidentalis*, p. 686, OSBURN 39.

*Defrancia intricata* referred to *Lichenopora*, OSBURN 39 p. 707.

*Diaperoecia floridana* referred to *Nevianipora*, MARCUS 32 pp. 275, 314.—*Diaperoecia* discussed, p. 640, key to species, *D. intricata* Canu & Bassler a synonym of *D. californica*, p. 642, *D. meandrina* Canu & Bassler referred to *Plagioecia*, p. 635, *D. radicata* Canu & Bassler synonym of *D. floridana* p. 644, *D. johnstoni*, p. 645, *intermedia*, p. 646, *claviformis* **sp. n.** Recent S. California, p. 647, OSBURN, Rep. Hancock Exped. 14 3 1953.

*Diastopora catillus* may be synonym of *Plagioecia anacarpensis*, p. 637, OSBURN 39.

*Diastoporidae*, genera discussed, p. 627, genera defined, p. 628, OSBURN 39.

*Diplosolen* discussed, p. 639, *D. obelium*, p. 640, OSBURN 39.

*Discocyrtis* discussed, *D. californica* **sp. n.** Recent S. California, p. 690, *canadensis*, p. 691, OSBURN, Rep. Hancock Exped. 14 3 1953.

*Disporella pila* **sp. n.**, *D. cristata*. Recent Brazil, MARCUS Arq. Mus. Nac. 42 1953 pp. 277, 314.—*Disporella* defined, key to species, p. 708, *fimbriata*, p. 709, *hispida*, p. 710, *californica*, p. 711, *ovoides* **sp. n.** Recent Galapagos Is. & S. California, p. 713, *alaskensis* **sp. n.** Recent Alaska, *stellata* var. *pacifica* **var. n.** of *Defrancia stellata* Reuss, p. 716, *D. separata* **sp. n.** Recent U.S.-Mexican Boundary, p. 717, *octo-radiata*, p. 718, *astraea* **sp. n.** Recent Galapagos Is., p. 719, OSBURN, Rep. Hancock Exped. 14 3 1953.

†*Domopora irregularis* a synonym of *Lichenopora cavernosa*, VOIGT 57 p. 44.

†*Entalophora intermedia*, VOIGT 57 p. 36.

*Entalophora* defined, *E. symmetrica*, p. 667, *proboscideoides*, *capita*, p. 668, *Entalophora* sp., p. 669, OSBURN 39.

*Entalophoridae* discussed, OSBURN 39 p. 666.

*Fasciculipora* discussed, p. 664, *pacifica* **sp. n.** Recent S. California, OSBURN, Rep. Hancock Exped. 14 3 p. 665.

*Fascigeridae* not recognized, OSBURN 39 p. 665.

*Filicrisia geniculata*, *franciscana*, OSBURN 39 p. 677.

*Filifascigera* discussed, p. 671, *F. clarionensis* **sp. n.** Recent S. & Lower California, p. 672, *Filifascigera* sp., p. 673, OSBURN, Rep. Hancock Exped. 14 3.

†*Fistulipora* **nom. conserv.** pending, BASSLER 4 p. G 83.—*F. crustula*, DALE 14 p. 91.

*Fron diporidae* defined, OSBURN 39 p. 671.

†*Heteropora crassa* v. Hag. pars (pl. V, fig. 13) = *Pennipora beyrichi*, p. 58, *H. cryptopora*, p. 62, VOIGT 57.

*Heteropora* discussed, p. 692, *H. magna*, p. 693, *pacifica*, p. 694, *alaskensis*, p. 695, OSBURN 39.

Heteroporidae discussed, OSBURN 39 p. 692.

Heteroporina Borg = Cerioporina Hagenow, OSBURN 39 p. 615.

†Hexagonellidae **emend. pro.** Hexagonellinae Crockford, BASSLER, Treatise Paleont. G 1953 p. G 87.

†*Homoeosolen bifurcatus*, VOIGT 57 p. 38.

*Hornera* defined, *H. pectinata*, p. 688, *pinnata*, p. 689, OSBURN 39.

Horneridae defined, OSBURN 39 p. 688.

*Idmonea radicata* Kirkpatrick referred to *Nevianipora*, *I. milneana* Smitt (non d'Orb.) a synonym, of *Diaperoecia floridana*, MARCUS 32 pp. 275, 314.—*I. palmata* O'Donoghue synonym of *Diaperoecia californica*, p. 642, OSBURN 39.

†*Lichenopora macropora*, *cavernosa*, VOIGT 57 p. 44.

*Lichenopora radiata*, p. 63, *fimbriata*, p. 64, *ancestrulae*, GAUTIER 20.—*L. tonica* **sp. n.** Recent Brazil, *L. novaezelandiae* Marcus (non Busk) may be a synonym, MARCUS, Arq. Mus. Nac. 42 1953 pp. 276, 314.—*Lichenopora* defined, key to species, p. 701, *L. canaliculata*, p. 702, *verrucaria*, p. 703, *buskiana*, p. 704, *radiata* synonym of *novae-zelandiae*, p. 705, *radiata* Robertson = *L. novae-zelandiae*, p. 705, *L. radiata* Canu & Bassler = *Discoporella ovoidea*, p. 713, *L. intricata*, p. 707, OSBURN 39.

Lichenoporidae discussed, OSBURN 39 p. 701.

†*Locularia* choice of genotype discussed, pars = *Camerapora*, p. 64, *L. damesii*, p. 65, VOIGT 57.

*Microecia tubiabortiva* referred to *Plagioecia*, p. 636, OSBURN 39.

†*Multicavea* referred to *Petaloporidae*, *M. annulata* a synonym of *M. pustulosa*, VOIGT 57 p. 53.

*Nevianipora radicata*, *floridana*, MARCUS 32 pp. 275, 314.

†*Nodidresciscis anomalopora* Ubaghs may be synonym of *Pennipora beyrichi*, VOIGT 57 p. 58.

*Oncousoecia* defined, *O. diastoporides*, p. 624, *canadensis*, p. 625, *ovoidea* **sp. n.** Recent California, *abrupta* **sp. n.** Recent S. California, p. 627, OSBURN Rep. Hancock Exped. 14 3 1953.

Oncousoeciidae discussed, genera defined, OSBURN 39 p. 618.

*Pachystega* Borg = *Cancellata* Gregory, OSBURN 39 p. 614.

†*Parasosoecia* Canu a synonym of *Petalopora* Lonsdale, VOIGT 57 p. 51.

†*Patenaria depressa*, VOIGT 57 p. 41.

†*Pennipora* discussed, *P. beyrichi*, VOIGT 57 p. 58.

†*Petalopora* discussed, p. 51, *P. fallax*, p. 52, VOIGT 57.

†*Phalangelia aulostoma* Hamm = base of *Entalophora* sp., VOIGT 57 p. 37.

*Plagioecia* discussed, p. 629, key to species, p. 630, *P. patina*, p. 631, *sarniensis*, p. 632, *tortuosa* **sp. n.** for *Mesenteripora meandrina* Robertson not Wood, p. 633, *grimaldii*, p. 634, *meandrina*, p. 635, *tubiabortiva*, p. 636, *anacarpensis* **sp. n.** Recent S. California, p. 637, *ambigua* **sp. n.** Recent Alaska, p. 638, *lactea*, p. 639, OSBURN, Rep. Hancock Exped. 14 3 1953.

*Platonea* discussed, p. 661, *veleronis* **sp. n.** Recent Galapagos Is., p. 662, *expansa* **sp. n.** Recent Galapagos Is., p. 663, *elongata* **sp. n.** Recent S. California, p. 664, OSBURN, Rep. Hancock Exped. 14 3 1953.

†*Polyphyma* Hamm a synonym of *Reptomulticava* d'Orbigny, p. 54, *P. bulbosa* a synonym of *R. heteropora*, p. 57, VOIGT 57.

*Proboscina* discussed, p. 620, *P. major*, p. 621, *sigmata* **sp. n.** Recent S. California, p. 622, *incrassata*, *lamellifera*, p. 623, OSBURN, Rep. Hancock Exped. 14 3 1953.

†*Radiocavaria* Hamm a synonym of *Petalopora* Lonsdale, VOIGT 57 p. 51.

Rectangulata discussed, OSBURN 39 p. 699.

†*Reptomulticava heteropora*, VOIGT 57 p. 57.

†*Semimulticavea reticulata*, p. 45, *S. macropora* referred to *Lichenopora*, p. 44, VOIGT 57.

†*Spiroclausa procera* referred to *Ceid-monea*, VOIGT 57 p. 69.

†*Spirofascigera paucipora*, VOIGT 57 p. 40.

*Stellihagenowia* **nom. n.** for *Stellipora* Hagenow, subgen. of *Lichenopora*, BASSLER, Treatise Paleont. **G** 1953 p. G 74.

*Stellipora* see *Stellihagenowia*.

†*Stephanodesma* Hamm a synonym of *Homoeosolen* Lonsdale, VOIGT 57 p. 38.

*Stomatopora* sp., ancestrula, GAUTIER 20 p. 62.—*Stomatopora* discussed, *S. granulata*, OSBURN 39 p. 619.

†*Trochiliopora caffini* **sp. n.** Cretaceous France, BALAVOINE Bull. Soc. géol. Fr. 6 3 1953 p. 579.

†*Truncatula jellyae* Pergens a synonym of *Homoeosolen bifurcatus* (Hamm), VOIGT 57 p. 38.

*Tubulipora mitis* **sp. n.**, pp. 274, 314, *macella* **sp. n.**, pp. 275, 314, Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953.—*Tubulipora* defined, p. 648, key to species, p. 649, *T. occidentalis* Robertson synonym of *T. tuba* (Gabb & Horn), p. 650, *fasciculifera* var. of *tuba*, p. 651, *pacifica*, p. 652, *pulchra*, *flexuosa*, p. 653, *egregia* **sp. n.** Recent Ecuador & Mexico, *concinna*, p. 655, *admiranda* **sp. n.** Recent S. California, p. 656, *flabellaris*, p. 657, *lobulata* Osburn not Hassall referred to *Bathysocia*, p. 660, *dawsoni* Hincks a synonym of *Diaperoecia californica*, p. 642, OSBURN, Rep. Hancock Exp. 14 3 1953.

*Tubuliporidae* discussed, p. 647, key to genera, p. 648, OSBURN 39.

*Tubuliporina* discussed, key to families, OSBURN 39 p. 617.

*Unicavea californica* d'Orb. referred to *Disporella*, OSBURN 39 p. 711.

#### TREPOSTOMATA

†*Trepostomata* discussed, BASSLER 4 p. G 90.

†*Diplotrypa petropolitana*, HOLTEDAHN 22 p. 195.

†*Eridotrypa solida*, DALE 14 p. 91.

†*Lioclema asperum*, DALE 14 p. 91.

†*Prasopora orientalis*, KAY 25 pp. 44, 120.

†*Stenoporidae* **emend. pro.** *Stenoporinae*, Waagen & Wentzel, BASSLER 4 p. G 101.

#### CRYPTOSTOMATA

†*Cryptostomata* discussed, BASSLER 4 p. G 119.

†*Acanthoclema asperum*, DALE 14 p. 91.

†*Archimedes*, genotype and synonymy, EASTON & DUNCAN 18 p. 737.

†*Clathropora frondosa*, DALE 14 p. 91.

†*Cyclopelta winteri*, fam. *Fenestellidae*, KRÄUSEL 26 p. 43.

†*Dictyocladia* see *Matheropora*.

†*Fenestella* **nom. conserv.** pending, BASSLER 4 p. G 120.

†*Matheropora* **nom. n.** for *Dictyocladia* Mather not Pomel, BASSLER, Treatise Paleont. **G** 1953 p. G 128.

†*Ptilodictyidae* **emend. pro** *Ptilodictyonidae*, BASSLER 4 p. G 136.

†*Rhabdomesidae* **emend pro** *Rhabdomesontidae*, BASSLER 4 p. G 130.

†*Rhinidictyidae* **emend pro** *Rhinidictyonidae*, BASSLER 4 p. G 140.

†*Rhinopora verrucosa*, DALE 14 p. 91.

†*Stictotrypa punctipora*, DALE 14 p. 91.

#### CHEILOSTOMATA

*Cheilostomata* discussed, BASSLER 4 p. G 147.

*Acanthodesia serrata*, KATO 24 p. 9.

*Aetea recta*, GAUTIER 20 p. 41.

*Amphiblestrum trifolium*, OSBURN 39 p. 775.

*Arachnopusia pusae* **sp. n.** Recent Brazil. MARCUS, Arq. Mus. Nac. 42 1953 pp. 294, 315.

†*Batopora*, VIGNEAUX 55 p. 58.

*Beania cupulariensis*, MARCUS 32 pp. 291, 315.

*Bicellariella ciliata* form. *edentata* **form. n.** Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 292, 315.

*Bugula brasiliensis* may be *B. turrita*, MARCUS 32 pp. 293, 315.—*B. flabellata* var. *acuminata* **var. n.** Recent Galapagos Is., OSBURN, Rep. Hancock Exped. 14 3 1953 p. 776.



*Caberea boryi*, HUMPHRIES 23.

*Canda retiformis* Canu & Bassler, 1929 and Okada & Mawatari 1936 may be *C. clypeata*, MARCUS 32 pp. 290, 315.

*Chappperia acanthina*, MARCUS 32 pp. 281, 314.

*Chorizopora brongnartii* [*sic*], ancestrula, GAUTIER 20 p. 47.

*Electra angulata*, p. 5, *tenella*, p. 7, MAWATARI 34.

*Emballothea stylifera*, OSBURN 39 p. 777.

*Escharella stylifera* Levinsen referred to *Emballothea*, p. 777, *E. porifera* forma *cancellata* Smitt referred to *Hippodiplosia*, p. 778, OSBURN 39.

*Escharoides coccinea*, LUTAUD 31 p. 36. —*E. mariae* **sp. n.** *E. tridens* for *E. praestans* var. *tridens*, Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 299, 316. —*E. jacksoni*, OSBURN 39 p. 780.

Exochellidae **emend. pro** Exochellinae, BASSLER 4 p. G 205.

*Fenestulina malusii*, MARCUS 32 pp. 300, 316.

*Gephyrophora imperfecta* referred to *Hippaliosina*, MARCUS 32 pp. 306, 316.

† *Graptopora* see *Graptoporella*.

† *Graptoporella* **nom. n.** for *Graptopora* Lang not Salter, BASSLER, Treatise Paleont. G 1953 p. G 189.

*Haplopoma impressa* var. *bimucronata*, ancestrula, GAUTIER 20 p. 49.

*Hincksina gothica* **sp. n.** Recent Alaska, OSBURN, Rep. Hancock Exped. 14 3 1935 p. 774.

*Hippaliosina imperfecta*, MARCUS 32 pp. 306, 316.

*Hippopodinella tregouboffi* **sp. n.** Recent Mediterranean, GAUTIER, Bull. Inst. océanogr. Monaco. No. 1008 1952 p. 10. [Species omitted from Z.R. 89].

"Hippoporidées **nom. nov.**" [vernacular], GAUTIER 20 p. 53.

Hippoporinidae **emend. pro** Hippoporininae, BASSLER 4 p. G 202.

*Holoporella atlantica*, MARCUS 32 pp. 310, 316.

*Jullienula* **nom. n.** for *Lyrula* Jullien not Wollarton, BASSLER, Treatise Paleont. G 1953, p. G 186.

*Lacerna gabriellae* **sp. n.** Recent Brazil, MARCUS Arq. Mus. Nac. 42 1953 pp. 297, 315.

*Lagenipora* discussed, p. 309, *L. aragoi* **sp. n.** Recent Brazil, pp. 308, 316, MARCUS, Arq. Mus. Nac. 42 1953.

*Lamulites conica* Defrance 1833 = *Trochopora conica* d'Orbigny, *L. conica* Busk non Def. = *L. burdigalensis* Canu, VIGNEAUX 54 pp. 56, 57.

*Lyrula* see *Jullienula*.

*Mastigophora* see *Mastigophorella*. — *Mastigophora porosa*, MARCUS 32 pp. 299, 316.

*Mastigophorella* **nom. n.** for *Mastigophora* Hincks not Felder, BASSLER, Treatise Paleont. G 1953 p. G 220.

*Membranipora annae* **nom. n.** for *M. hastingsae* Osburn preocc., OSBURN, Rep. Hancock Exped. 14 3 1953 p. 774.

*Microporella arctica*, OSBURN 39 p. 779.

*Monoporella divae* **sp. n.** Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 286, 315.

*Mucronella microstoma*, OSBURN 39 p. 781.

*Pachyegis brunnea*, OSBURN 39 p. 777.

*Parellisina centetica* **sp. n.** Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 p. 314 (as *Parelissina* on p. 281).

*Phylactella* see *Phylactellipora*.

*Phylactellipora* **nom. n.** for *Phylactella* Canu & Bassler not Hincks, genotype *Lepralia collaris* Norman, *P. hincksi* **nom. n.** for *Phylactella labrosa* Hincks not Busk, BASSLER, Treatise Paleont. G 1953 p. G 217.

Phylactelliporidae **fam. n.** for *Phylactellipora*, *Cheilonella*, *Hippolyrula*, *Phylactellina*, *Pleurolyrula*, *Pleuromucrum*, *Tremolyrula*, BASSLER, Treatise Paleont. G 1953, p. G 217.

*Porella minuta*, OSBURN 39 p. 780.

*Puellina gattyae*, ancestrula, GAUTIER 20 p. 47.

*Reteporellina evelinae* **sp. n.** Recent Brazil, MARCUS 32 pp. 302, 316.

*Schizobrachiella sanguinea*, GAUTIER 20 p. 55.

*Schizomavella auriculata*, GAUTIER 20 p. 50.



*Schizopodrella longirostris*, GAUTIER 20 p. 51.

Schizoporellidées [vernacular], GAUTIER 20 p. 49.

*Scruparia ambigua*, MARCUS 32 p. 279.

*Scrupocellaria reptans*, LUTAUD 30 p. 42.—*S. ornithorhyncus*, p. 287, *drachi* sp. n. pp. 288, 315, *micheli* sp. n. pp. 289, 315, Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953.

*Smittina smittiella*, MARCUS 32 pp. 302, 316.

*Smittipora leviseni*, MARCUS 32 pp. 282, 314.

*Steganoporella magnilabris*, pp. 284, 315, *buskii*, pp. 285, 315, MARCUS 32.

Steganoporellidae emend. pro Steganoporellidae, BASSLER 4 p. G 171.

*Stephanosella alipioi* sp. n. Recent Brazil, MARCUS, Arq. Mus. Nac. Brazil 42 1953 pp. 295, 315.

*Trematoecia osburni* sp. n. Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 311, 316.

*Tremoschizodina fulgens* sp. n. Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 308, 316.

*Trigonopora gulo* sp. n., *unguiculata*, Recent Brazil, MARCUS, Arq. Mus. Nac. 42 1953 pp. 304, 316.

## PHYLACTOLEAEMATA

*Fredericella australis* var. *browni*, MARCUS 33 p. 149.

*Stolella agilis* subsp. *tica* subsp. n. Recent Lake Titicaca, Peru, MARCUS, Bol. Fac. Ciên. São Paulo, Zool. no. 18 1953 p. 152.

## ENTOPROCTA

Entoprocta discussed, OSBURN 39 p. 759.

*Ascopodaria macropus* Robertson may be synonym of *Barentsia geniculata*, OSBURN 39 p. 769.

*Barentsia gorbunovi* sp. n. Recent Arctic, KLUGE, Exp. Drifting Ice 3 1946, pp. 153, 157.—*Barentsia* discussed, key to species, p. 764, *B. gracilis*, p. 765, *discreta*, p. 766, *ramosa*, *gorbunovi*, p. 767, *robusta* sp. n. Recent Vancouver,

p. 768, *geniculata*, p. 769, *subrigida* sp. n. Recent S. California, p. 770, OSBURN, Rep. Hancock Exped. 14 3 1953.—*Barentsia* correct genus for *Silicularia rosea*, *minima* Hargitt, supposed Hydroids, GAUTIER & PICARD 21 p. 57.

*Coriella* gen. n. Pedicellinidae, genotype *C. stolonata* sp. n. Recent Arctic, KLUGE, Exp. Drifting Ice 3 1946 pp. 155, 157.—*Coriella* defined, *C. stolonata*, OSBURN 39 p. 771.

*Loxocalyx tethyae*, p. 381, *teissieri* sp. n. Recent France on *Dysidea fragilis* (Montagu), p. 382, BOBIN & PRENANT, Bull. Soc. zool. Fr. 78 1953.—*Loxocalyx* sp., OSBURN 39 p. 761.

*Loxomespilon* gen. n. Loxosomatidae, monotypic for *L. perezi* sp. n. Recent France on branchia and ctenidia of *Sthenelais boa* (Johnston), BOBIN & PRENANT, Arch. Zool. exp. gén. 91 Notes & Rev. 1 1953 p. 29.

*Loxosoma claparedei* sp. n. Recent France on *Notomastus latericeus* Sars, BOBIN & PRENANT, Arch. Zool. exp. gén. 91 Notes & Rev. 1953 p. 25.—*L. loricatum*, BOBIN & PRENANT 10 p. 127.—*L. singulare*, BOBIN & PRENANT 9 p. 87.—*L. davenporti*, OSBURN 39 p. 760.

Loxosomatidae defined, OSBURN 39 p. 760.

*Loxosomella murmanica*, p. 20, *atkinsae* sp. n. Recent France, on *Phascolion*, p. 28, *aryae* sp. n. Recent France, on *Phascolion*, p. 32, *L. nitschei*, p. 34, BOBIN & PRENANT, Arch. Zool. exp. gén. 90 1953 Notes & Rev. I.—*L. fauveli* sp. n. for *Loxosoma singulare* auct. not Keferstein, Recent France, BOBIN & PRENANT, Bull. Soc. zool. Fr. 78 1 1953 p. 92.—*L. fagei* sp. n. Recent France on *Hermione*, p. 125, *L. claviiformis*, p. 127, BOBIN & PRENANT, Bull. Soc. zool. Fr. 78 2-3, 1953.—*L. brumpti* sp. n. Recent France on *Phascolion strombi*, p. 95, *fungiformis*, sp. n. Recent France on *Phascolion strombi*, p. 98, *cuenoti* sp. n. Recent France on *Phascolion strombi*, p. 100 *L. murmanica*, *nitschei*, p. 102, BOBIN & PRENANT, Arch. Zool. exp. gén. 90 Notes & Rev. 3 1953.—*L. globosa* sp. n. Recent Monaco on *Hermione*, p. 3, *L. claviiformis*, p. 6, *L. gautieri* sp. n. Recent Monaco on *Phascolosoma vulgare*, p. 7, BOBIN & PRENANT, Bull. Inst. Océanog. Monaco 1030 1953.

*Myosoma* defined, *M. spinosa*, OSBURN  
39 p. 762.

*Pedicellina* defined, p. 762, *P. nutans*  
Robertson, *echinata* Robertson and

*americana* Leidy synonyms of *P. cernua*,  
p. 763, OSBURN 39.

Pedicellinidae defined, key to gen-  
era, OSBURN 39 p. 761.